

FIG. 1A

Validation - phase I

- verification of initial ---
- screening results
- establish cellular -----
- localization & anatomic
- distribution

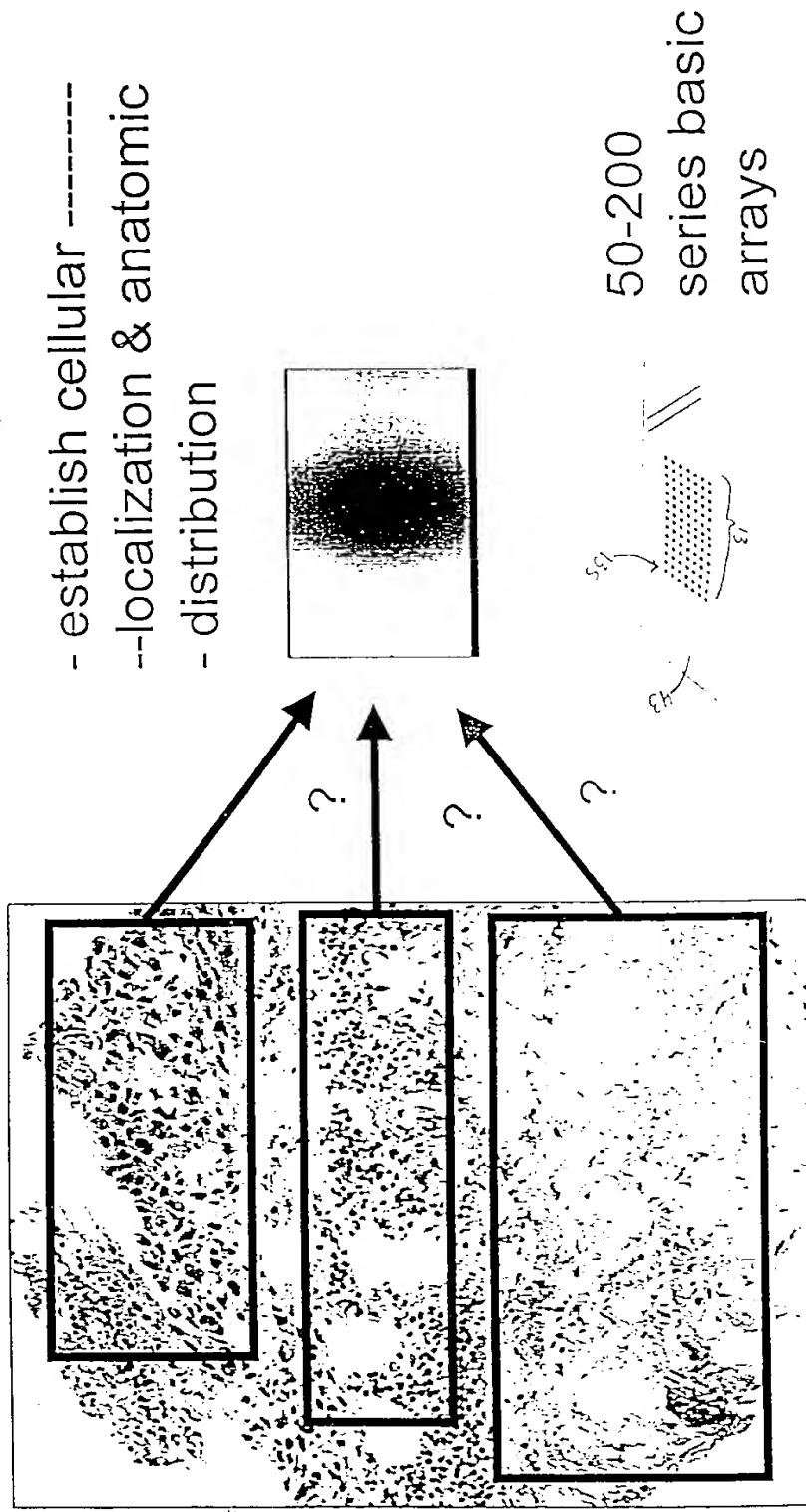


FIG. 1B

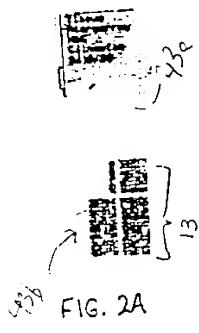


FIG. 2A

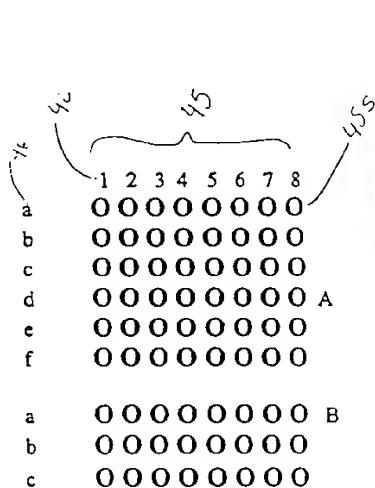
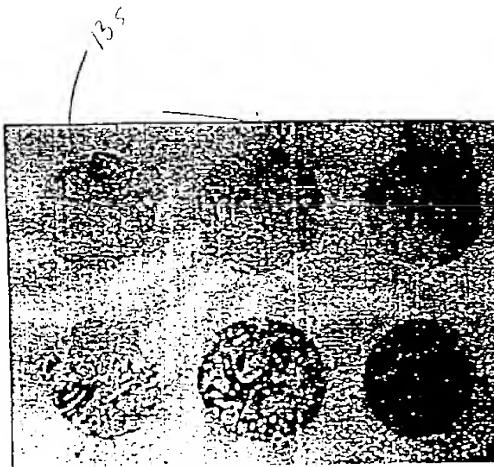


FIG. 2B



Six tissue elements from a PathWork™ Breast Array BR50 stained with CK7 showing selective staining (400X). Tissue elements are 0.6mm in diameter and spaced 0.3mm apart.

FIG. 2C

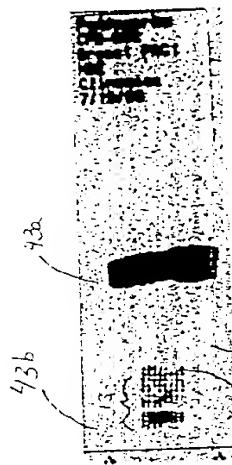


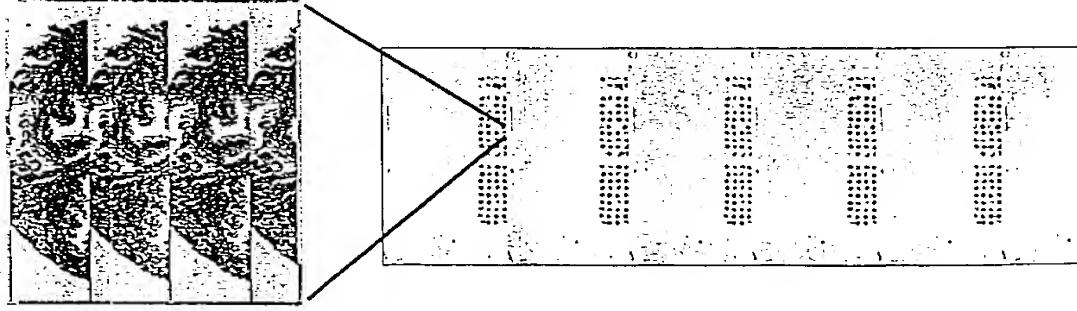
FIG. 2D

Sample Data Sheet Information (for one tissue element, located at A1a)
provided with every pathWorks™ Tissue MicroArray

Cat. #	BR50	Mitoses:	1
Lot #	07	PT:	1
Coordinates:	A1a	pN:	0
Organ:	Breast	LN pos	0
Category:	Breast cancer, ductal	LN all	23
Sex:	F	Tumor dia.	15
Age:	67	Surgery:	mastector
BRE Grade:	G2		
Tubuli:	3		
Polymorphy:	3		

FIG. 2E

Tissue MicroArrays



- Development of population databases
- High-throughput *in situ* analysis of DNA, RNA and protein
- Discovery of diagnostic and prognostic correlations
- Target prioritization

FIG. 3

The Clinomics Biorepository

Clinomics Biorepository Application - [msSpecimenEntry : Form]

File Edit View Insert Format Records Tools Window Help

Pathology # Pathology #

Patient Data | Diagnosis | Histology | Specimen Data | Add New Pathology

Collection Date	Act at Collection	Received Date	Specimen Type	Amount
6/19/1990	03	10/15/1990	[CB] tissue	[CB] block
Medication	Medication Site	Biopsy	Treatment	TNM Staging
CMF	Lung	[CB] biopsy	[CB] Chemotherapy	[CB] T1N0K0
Chemotherapy	Chemotherapy Date	Radiation Therapy	Node Status	Surgical History
Yes	07/20/1990	Yc1	7/15/1990 Positive	[CB] Yes
Primary Site	Tube Type	Surgical Resection		
Breast (L)	Conical	[CB] Yes		

Sample Data

ClinomicID	Description	Location	Sample Type	Amount	Quotient
000002041	[CB] TPA, A, tubes	[CB] FFPE	[CB] block	[CB] 0	[CB] 0
000007409	Breast cancer	[TPA, A, tubes	[CB] S	[CB] 100 mg/l	[CB] 0
000007491	Breast cancer	[TPA, B, bags	[CB] FFPE	[CB] 100 Mg	[CB] 0
000007492	Breast cancer	[TPA, B, bags	[CB] FFPE	[CB] 100 mg	[CB] 0
000007493	Breast cancer	[TPA, A, tubes	[CB] FFPE	[CB] 100 mg	[CB] 0
000007494	Breast cancer	[TPA, A, tubes	[CB] FFPE	[CB] 100 mg	[CB] 0

Record: 14 of 471 Form View

Start | Back | Next | End | Home | Print | Help | Clinomics

4:48 PM

CLINOMICS

FIG. 4A



Biorepository Database

	coordinates on array	histology	HRE grade	tumor diameter	pT	pN	nodes examined	nodes pos	censor	months survival	age	homotherapy	chemotherapy	radiotherapy	pegp	demeth
total	1															
mamou	1	90	3	1			40		28	0		0			38	33
mamou	2	60	3	2			10		6	0		22	54	no	no	
mamou	1	20	1	0			8		0	0		96	55	no	no	
mamou	1	30	4	1			9		2	0		64	70	yes	no	
mamou	1	30	4	1			14		8	0		43	44	no	no	
mamou	1	10	1	1			11		2	0		12	51	yes	no	
mamou	3	22	2	1			16		3	0		107	64	yes	no	
mamou	3	30	2	3			4		4	0		21	48			
mamou	3	3	3	2						0						
mamou	2	40	2	1			13		5	0						
mamou	1	40	2	2			12		9	0						
mamou	2	30	4	2			10		7	0						
mamou	3	30	4	0			14		0	0						

Medication and treatment histories, with outcomes, and expression profiles

FIG. 4B

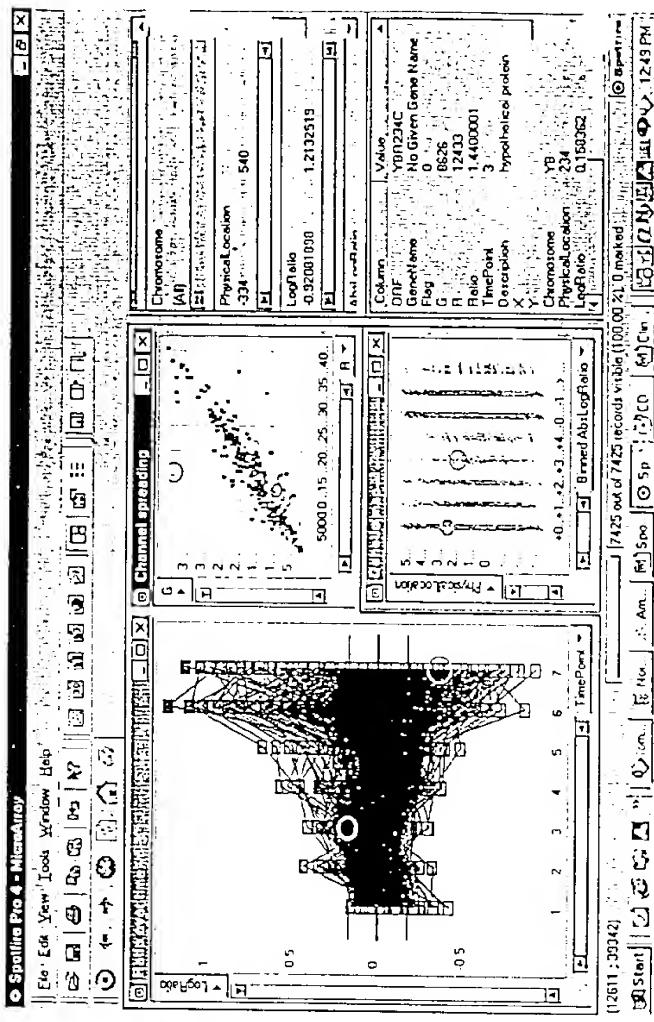
CLINOMICS

Biorepository Database

Sorting and selection of patient populations

Clustering analysis

Development of expression profiles vs. medical data



Clustering analysis

FIG. 4C

CLINOMICS

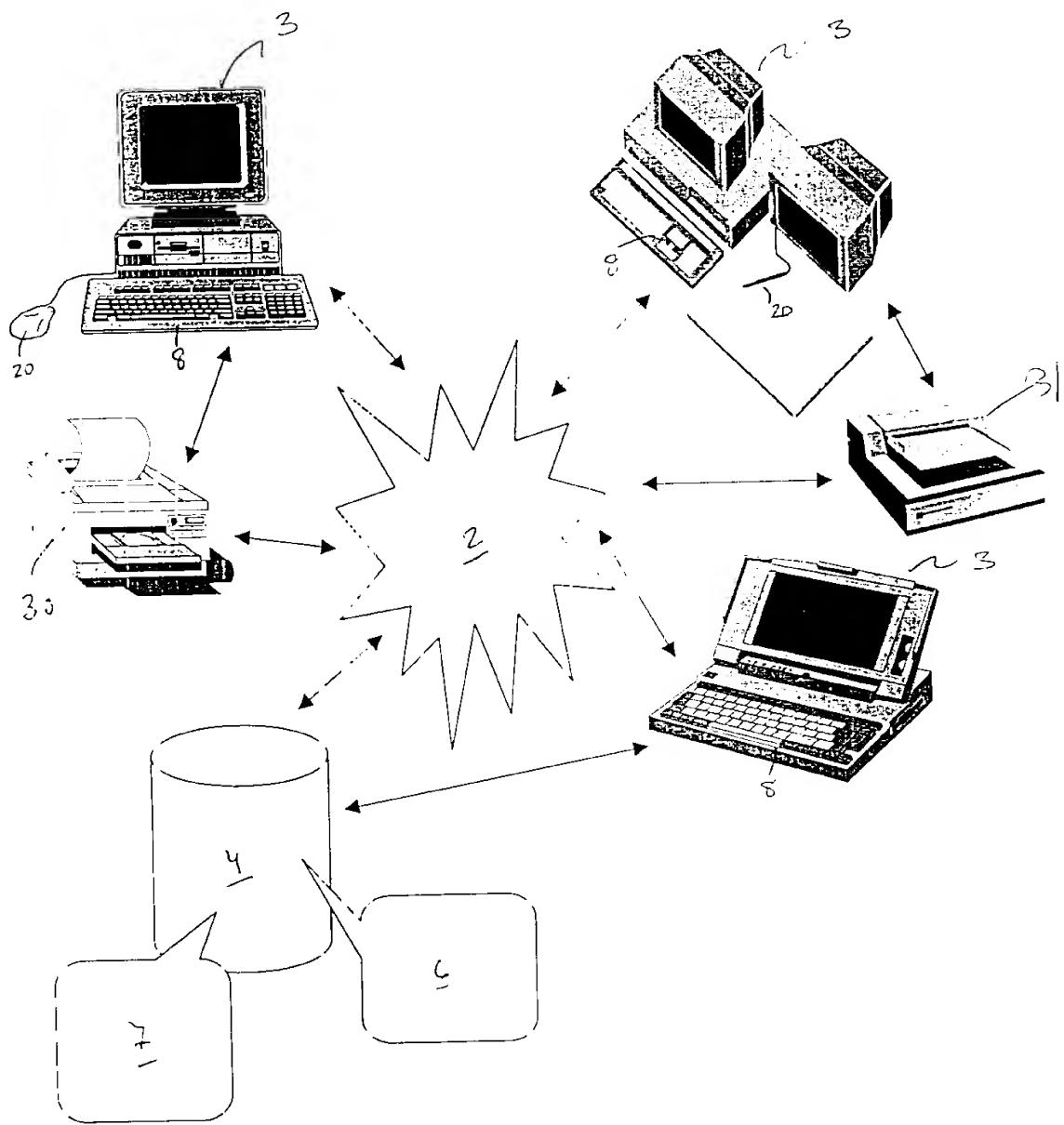


FIGURE 5

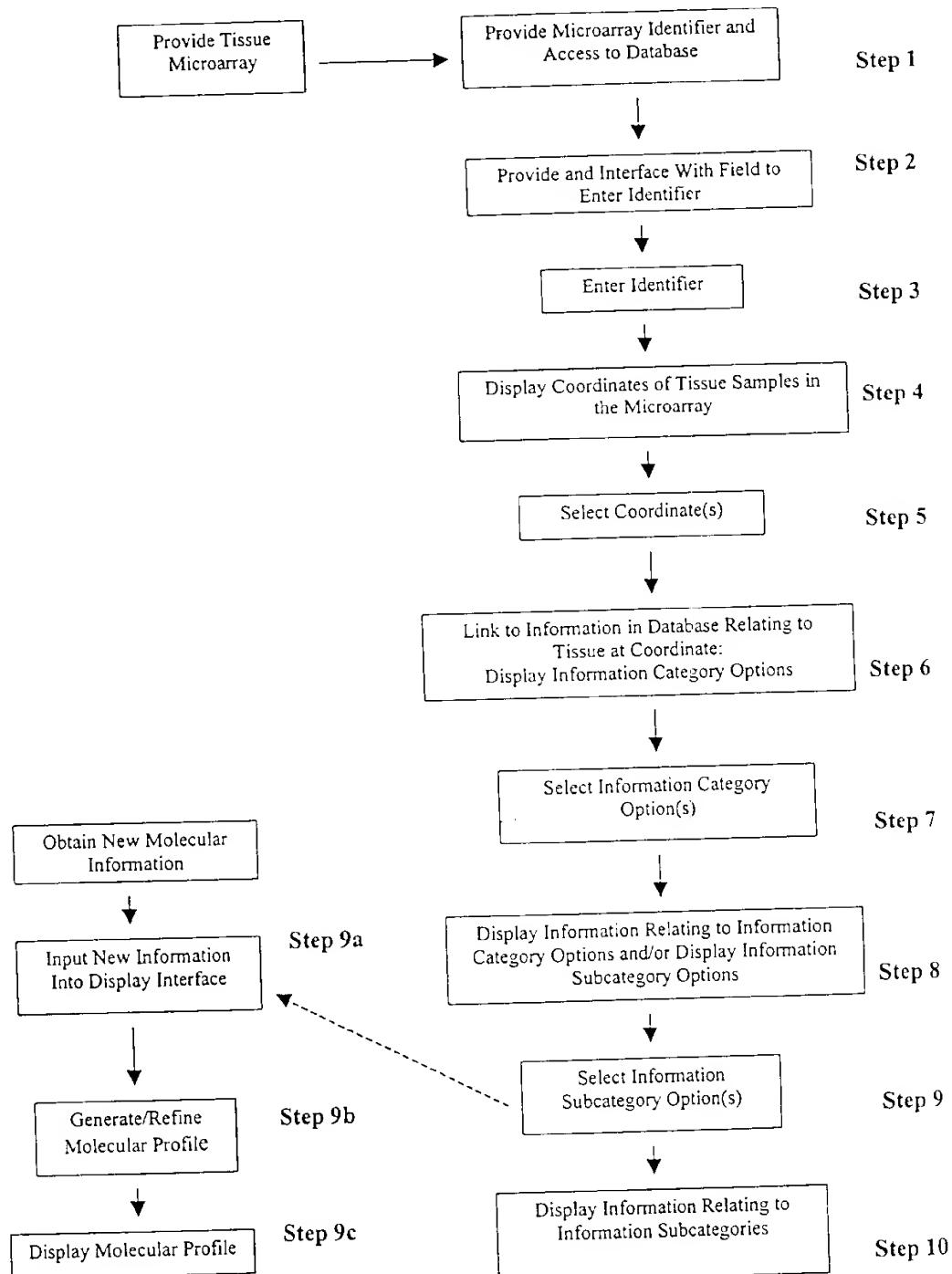


FIG. 6

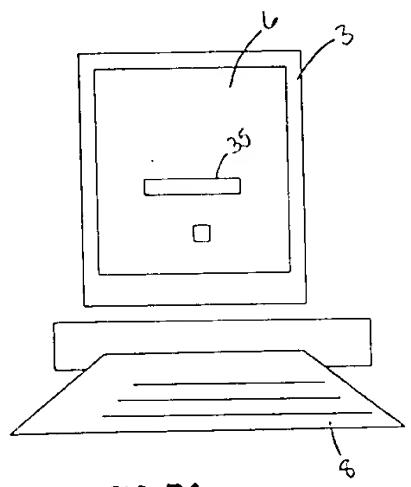


FIG. 7A

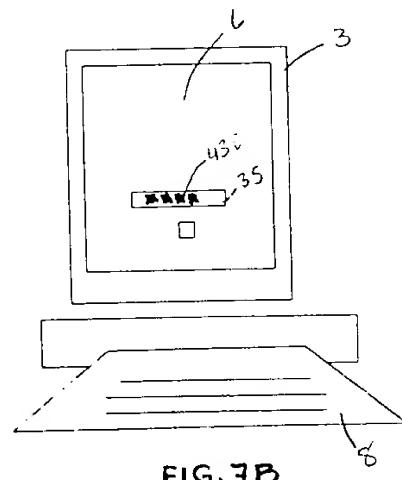


FIG. 7B

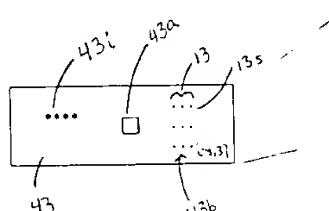


FIG. 7C

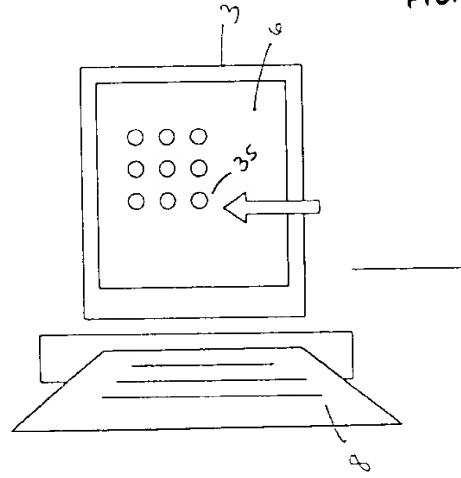
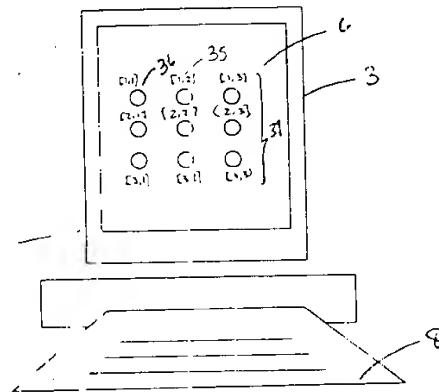


FIG. 7D

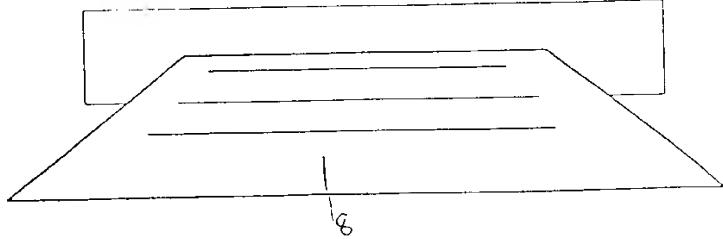


FIG. 7E

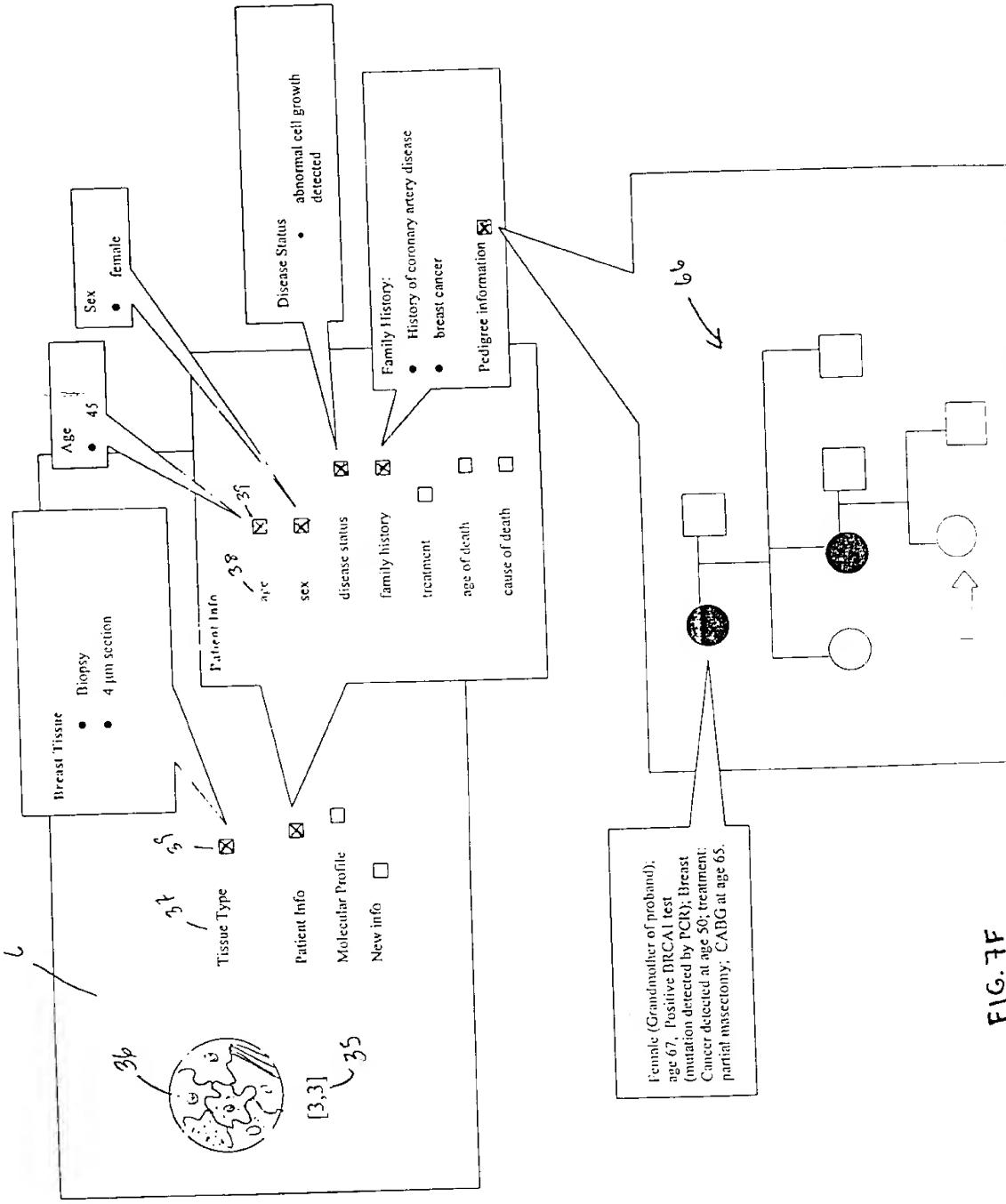


FIG. 7F

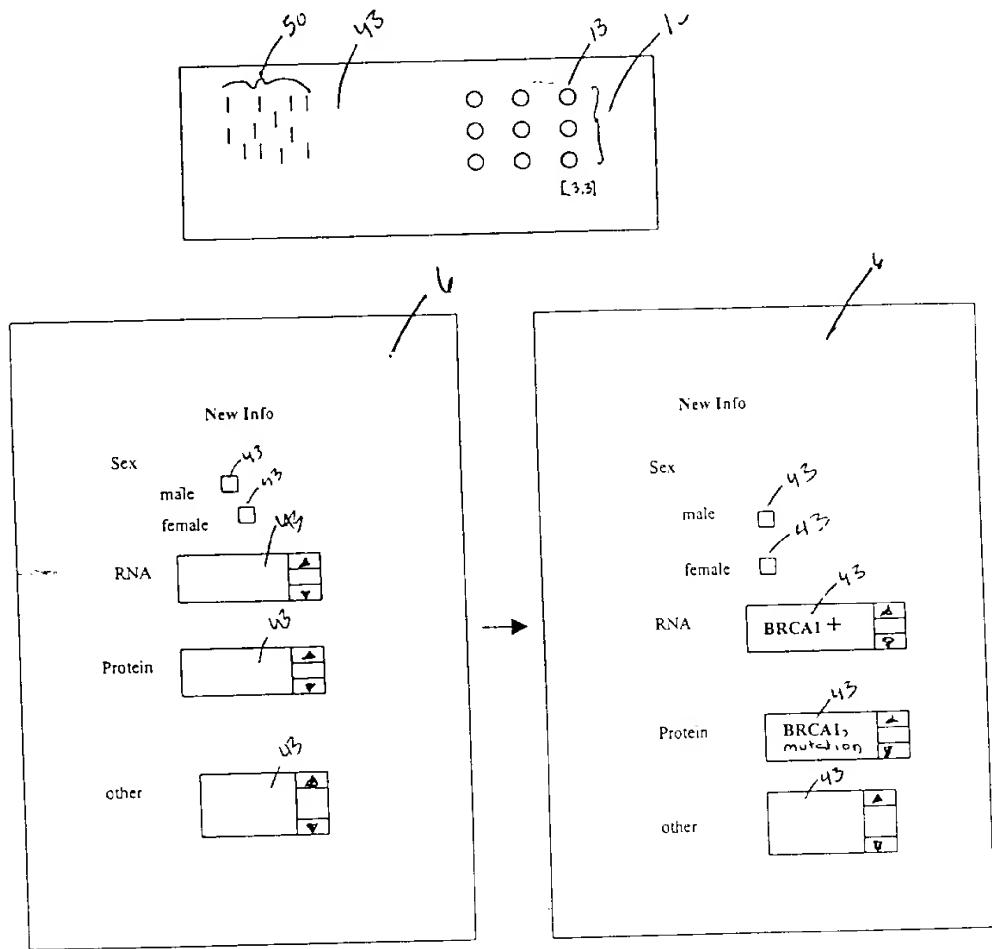
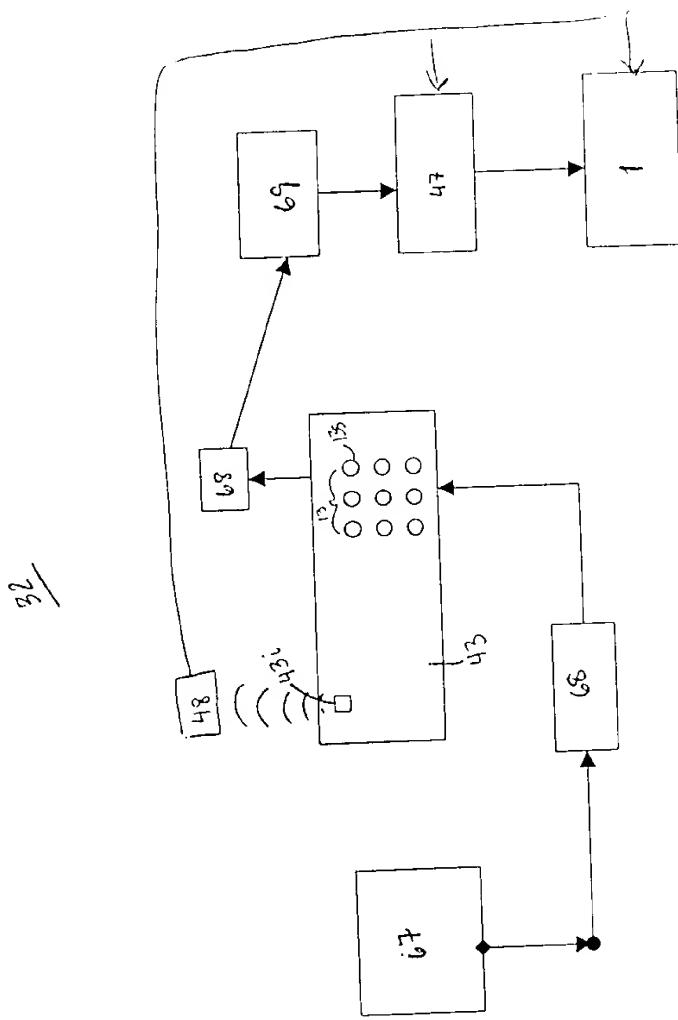


FIG. 7G

FIGURE 8



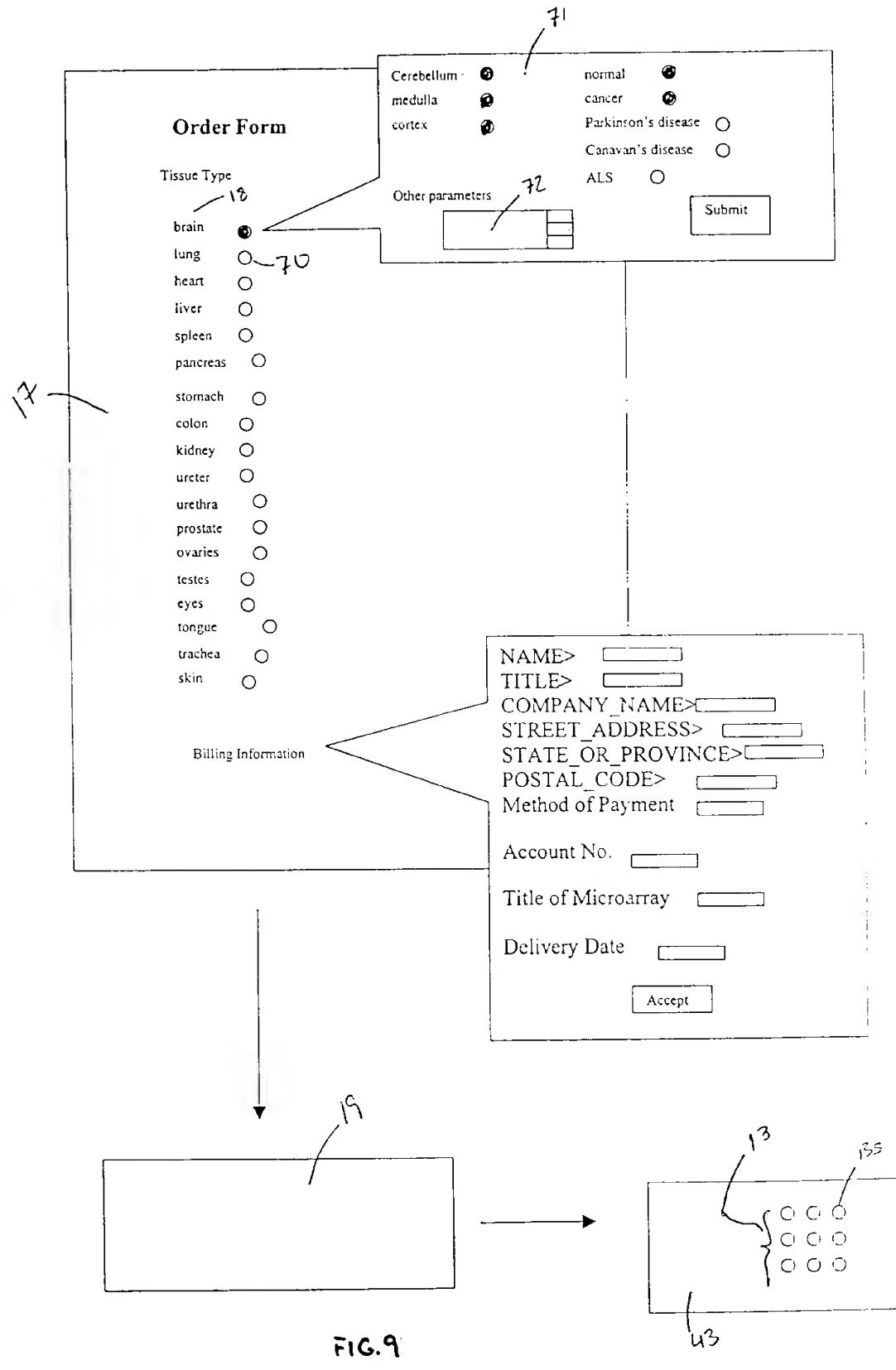


FIGURE 10

Microsoft Access - [Pathology H-0717-86 to H-0065-87]

File	Edit	View	Insert	Records	Tools	Window	Help
<input type="button" value="New"/>	<input type="button" value="Open"/>	<input type="button" value="Save"/>	<input type="button" value="Print"/>	<input type="button" value="Find"/>	<input type="button" value="Replace"/>	<input type="button" value="Sort"/>	<input type="button" value="Exit"/>
<input type="button" value="Print"/>	<input type="button" value="Close"/>	<input type="button" value="Cancel"/>	<input type="button" value="OK"/>	<input type="button" value="Help"/>	<input type="button" value="Question Mark"/>	<input type="button" value="Back"/>	<input type="button" value="Forward"/>
Pathology # H-0717-86							
Primary Diagnosis Bladder tumor							
Histology grade 2 papillary transitional cell carcinoma showing at least superficial smooth muscle invasion and associated with mildly atypical							
Chromogrid ID 00000006P Age/DOB 63 Sex M Collection Date 4/30/86							
Location Tissue processing site freezer, parallel							
Primary Site Bladder Medication Con Medication Hypochloridryoz Valium, Tylenol							
Melanosis Site Evidence							
Treatment Chemotherapy, R. Amount Block Node Status none							
Radiation Therapy TNM Staging Localized Radiation Therapy, Pelvic CEA CEA NA							
Surgical Resection Bladder Grade 2							
Surgical Biopsy CA-15-3							
CA125 YES Progesterone NA							
Estradiol NA							
Progesterone NA							
Testosterone NA							
Location Location							
Record: 14 of 31393							
Form View							

FIGURE II A

	B	C	D	E	F	G	H	I	J	K	L	M
26	POST MENOPAUSAL	60	F	CAU	10/98	NONE	NONE	UNK	NONE	UNK	UNK	SEF
27	POST MENOPAUSAL	65	F	CAU	11/7/96	MUMLIN INSULIN LOPATIN NORVATE CYCLODRENAPRIN	HYPERTENSION/ DEPRESSION/ ALLERGY (PENICILLIN) ARTHRITIS/ DIABETES	Hysterectomy	NONE	NEVER	NONE	SEF
28	POST MENOPAUSAL	61	F	CAU	11/9/96	INDURAL DIAZOCIDE CHOLINERGICS	INDURAL DIAZOCIDE CHOLINERGICS	Hysterectomy	NONE	NEVER	NONE	SEF
29	POST MENOPAUSAL	UNK	F	BLK	11/9/96	BLOOD PRESSURE MEDS	HYPERTENSION	Hysterectomy(1992)	NONE	NEVER	NONE	SEF
30	POST MENOPAUSAL	64/35	F	CAU	11/07/9	CHINETODIENE/ GLUCOPHAGE/ GLYBURIDE	ARTHRITIS/ DIABETES	Hysterectomy(1978)	NONE	NEVER	NONE	SEF
31	POST MENOPAUSAL	5/3/11/15	F	CAU	11/07/9	CONTACT ASPIRIN EQUATE	CANDIAL(181PS2 1973)	1955	NONE	NEVER	NONE	SEF
32	POST MENOPAUSAL	9/10/15	F	CAU	11/07/9	NONE	NONE	1955	NONE	20 YRS AGO	NONE	SEF
33	POST	66	Z	BLK	11/07/9	AMADIN	LICHE	Hysterectomy(1982)	NONE	NEVER	NONE	SEF

A Raw Clinical History Data Retrieved from the Clinomics Biorepository Database.

The screenshot shows a medical record for a patient named CLINNOHRT3.sis. The interface includes a menu bar (File, Edit, View, Tools, Window, Help), a toolbar with various icons, and several panes displaying patient information.

Panels:

- MEDICATIONS:** Shows a list of medications including Aspirin, Zantac, Equate, and Tylenol.
- MENSTRUAL STATUS:** Shows the status as "POST MENOPAUSAL".
- CONCURRENT CONDITIONS:** Shows the status as "NONE".
- HORMONE REPLACEMENT THERAPY:** Shows the status as "NONE".
- Detailed Summary Table:** A large table listing patient details and history.

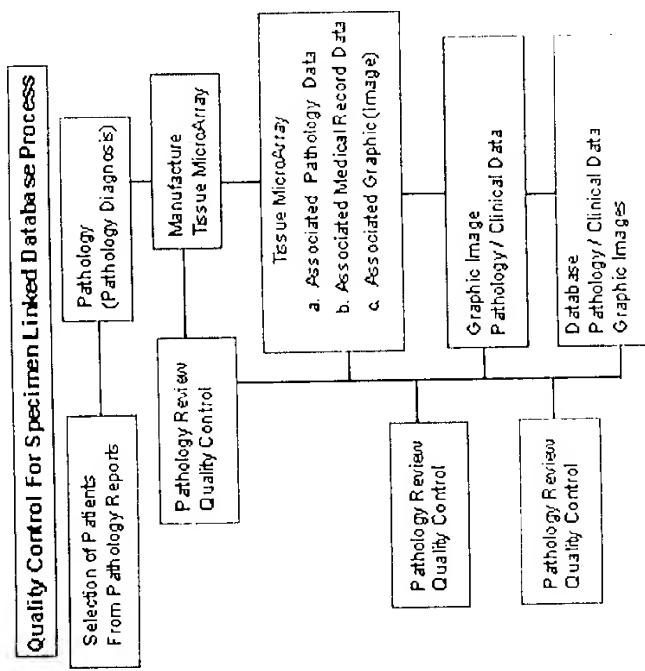
Detailed Summary Table Data:

Column	Value
Clinomics LOT NO	9701-027-2542
SAMPLE TYPE	POST MENOPAUSAL
DOB	59
AGE	F
SEX	BLK
ETH	11/07/95
DOD	INSULIN/ISTELAZ
MEDICATIONS	HYPERTENSION/
CONCURRENT CONDITIONS	NONE
MENSTRUAL STATUS	1988
HORMONE REPLACEMENT THERAPY	6 YRS AGO LIGHT
SMOKING HISTORY	NONE
ALCOHOL HISTORY	SERUM
MATRIX	22
AVAIL VOL AS OF [8/20/98]	

Status Bar: (1979 : ZANTAC/ASPIRIN/ EQUATE) [73 out of 73 records visible (100.00%)] 0 marked Norton System Da CD Player - [06] 0 Spotfire Pro 4 10:27 PM

FIGURE 11B

FIGURE 12



FIS WLE 13

SNO-MED ANASITE NUMBERS			
T.02 SKIN	T.41 ARTERY,GENERAL	T.77 PROSTATE	T.Y1 TRUNK,PERINEUM
T.03 SUBCUTANEOUS TISSUE	T.42 AORTA	T.78 TESTES,TUNICA VAGINALIS	T.Y2 THORACIC,DIAPHRAGM MEDIASTINUM
T.04 BREAST	T.43 CORONARY ARTERY	T.79 SCROTUM,SPERM CORD EPIDIDYMIS,VAS DEF	T.Y3 THORACIC VISCERA T.Y4 ABDOMEN,PERITONEU RETROPERITONEUM
T.06 BONE MARROW	T.44 PULM. ARTERY	T.80 VULVA,LABIUM,CLITORIS BARTHOLINS GLAND	T.Y6 PELVIS
T.07 SPLEEN	T.45 VERT,CAROTID,CEREBR,TEMPOR, BASILOR ARTERIES	T.81 VAGINA,HYMEN	T.YX PERITONEAL FLUID
T.08 LYMPH NODES	T.46 ILIAC,RENAL,MESSENTERIC ARTERY	T.82 UTERUS	T.Y1 SYNOVIAL FLUID
T.09 LYMPHATICS	T.47 POPLITEAL ARTERY	T.83 CERVIX	T.2X UPPER RESP FLD T.2Y LOWER RESP FLD
T.11 BONE	T.48 VEIN	T.84 ENDOMETRIUM	T.6X GI FLD, SPACES T.6Y GI CONTENTS
T.12 SYNOVIAJ,JOINT	T.49 VEIN	T.85 MYOMETRIUM	T.7X URINE TRA.FLD,SPACE
T.13 MUSCLE	T.50 DIGESTIVE SYSTEM	T.86 FALLOPIAN TUBE	T.7Y MALE GENT FLD,SPACE
T.15 CARTILADGE	T.51 MOUTH,PALATE,ORAL	T.87 OVARY	T.8X FEM.GENT FLD,SPACE
T.16 BURSA	T.52 LIP	T.88 PLACENTA,UMBCORD	T.8Y PLACENTA,FETAL FLD
T.17 TENDON	T.53 TONGUE	T.89 FETUS	T.XO NERVOUS SYSTEM
T.18 LIGAMENT,FASCIA	T.54 GUM,TOOTH,GINGIVA	T.91 PITUITARY	T.YO BODY AS A WHOLE
T.19 SOFT TISSUE	T.55 PAROTID,SALIV GLND	T.93 ADRENAL	
T.21 NOSE	T.56 LIVER	T.96 THYROID	
T.22 SINUS,ACESSORY	T.57 GALLBLADDER	T.97 PARATHYROID	
T.23 NASOPHARYNX	T.58 EXTRAHEPATIC BILE DUCT	T.98 THYMUS	
T.24 VOC.CRD,LARY,EPIGLT	T.59 PANCREAS	T.99 ISLET OF LANGERHANS	
T.25 TRACHEA	T.60 PHARYNX	T.OX BLOOD	
T.26 BRONCHUS	T.61 TONSIL,ADENOIDS	T.1X FIBRO,ADIPOSE TISSUE	
		CONNECTIVE TISSUE	
T.27 BRONCHIOLE	T.62 ESOPHAGUS	T.Y8 UPPER EXTREM.	
T.28 LUNG	T.63 CMENTUM,STOMACH,PYLORUS	T.Y9 LOWER EXTREM.	
T.29 PLEURA	T.64 SM.INTEST.,DUODENUM	T.XY EAR	
T.30 CARDIO VAS SYS	T.65 JEJUNUM,ILEUM	T.XX EYE	
T.31 PERICARDIUM	T.66 APPENDIX	T.X1 INTRACRAN.MENINGES CSF,DURAL,VENTRIC SYS	
T.32 HEART	T.67 COLON,MESSENTERY	T.X2 CEREBRAL,BRAIN CORPUS CALLOSUM	
T.33 MYOCARDIUM	T.68 RECTUM	T.X3 BASAL GANGLIA	
T.34 ENDOCARDIUM	T.69 ANUS	T.X4 THALAMUS	
T.35 CARDIAC VALVE	T.71 KIDNEY	T.X5 PONS,MIDBRAIN	
T.36 TRICUSPID VALVE	T.72 RENAL PELVIS,COCCYX	T.X6 CEREBELLUM	
T.37 PULMONIC VALVE	T.73 URETER	T.X7 SPINAL CORD	
T.38 MITRAL VALVE	T.74 BLADDER	T.X8 CRANIAL NERVE,OPTIC	
T.39 AORTIC VALVE	T.75 URETHRA	T.X9 NERVE,VAGUS NERVE	
T.40 BLOOD VESSELS	T.76 PENIS	T.YO SCALP,ORBITAL	

FIGURE 14A

SNO-MED DIAGNOSIS NUMBERS CARCINOM	
ADENOCARCINOMA	M.8143
ADENOCARCINOMA,ANAPLASTIC	M.8233
ADENOCARCINOMA,CLEAR CELL	M.8313
ADENOCARCINOMA,COLOID	M.8483
ADENOCARCINOMA,CYSTIC	M.8443
ADENOSQUAMOUS CARCINOMA	M.8563
ADENOCARCINOMA,IN-SITU	M.8142
ADENOCARCINOMA,MUCINOUS CYST	M.8473
ADENOCARCINOMA,PAPILLARY	M.8263
ADENOCARCINOMA,UNDIFFER.	M.8233
ADENOCARCINOMA,SIGNET RING	M.8493
ARRHENBLASTOMA	M.8630
ANAPLASTIC MALIGNANCY	M.8003
ASTROCYTOMA,GRADE 1	M.9403
ASTROCYTOMA,GRADE 2	M.9433
ASTROCYTOMA,GRADE 3 & 4	M.9443
ADNEXAL CARCINOMA	M.8393
ANAPLASTIC CARCINOMA	M.8023
ADENOID CYSTIC CARCINOMA	M.8203
ADAMANTINOMA	M.9310
ALVEOLAR CARCINOMA	M.8253
ACINAR TUMOR	M.8001
ACINAR CARCINOMA	M.8553
BASAL CELL CARCINOMA	M.8093
BRONCHIOLAR CARCINOMA	M.8253
BASALOID TRANSITIONAL CARCINOMA	M.8123
BASAL CELL EPITHELIOMA	M.8090
CARCINOMA	M.8013
CARCINOMA,COLLOID	M.8483
CARCINOMA,IN-SITU	M.8012
CARCINOMA,PAPILLARY	M.8053
CARCINOMA,SMALL CELL	M.8043
CARCINOSARCOMA	M.8983
CARCINOID,MALIGNANT TUMOR	M.8243
CARCINOMA,UNDIFFERENTIATED METS	M.8023
CARCINOMA,UNDIFFERENTIATED	M.8023
CHORIOCARCINOMA	M.9103
CARCINOID TUMOR	M.8241
CHOLANGiocARCINOMA	M.8163
CHONDROSARCOMA	M.9223
CHONDROBLASTOMA	M.9230
CRANIOPHARYNGIOMA	M.9351
CYLINDROMA	M.8203
CYSTADENOCARCINOMA PAPILLARY SEROUS	M.8463
CYSTADENOCARCINOMA, PAPILLARY	M.8453
DERMATOFIBROSARCOMA	M.8823
DYSPLASIA	M.7600
DUCTAL,INFILTRATING CARCINOMA	M.8503
EPENDYMOMA	M.9391

FIGURE 14B

EPIDERMOID CARCINOMA	M.8073
EMBRYONAL CELL CARCINOMA	M.9073
EPITHELIOMA	M.8110
EWINGS SARCOMA	M.9263
FIBROSARCOMA	M.8823
FOLLICULAR CARCINOMA	M.8333
GIANT CELL SARCOMA	M.8803
GIANT CELL TUMOR	M.9040
GRANULOSA CELL TUMOR	M.8621
GLIOBLASTOMA, MULTIFORME	M.9443
GLIOMA	M.9383
GIANT CELL CARCINOMA	M.8033
HEMANGIOBLASTOMA	M.9161
HEPATOBLASTOMA	M.8973
HISTOCYTOMA	M.8830
HODGKINS	M.9653
HODGKINS SARCOMA	M.9683
HURTELL CELL CARCINOMA	M.8363
ISLET CELL CARCINOMA	M.8153
KAPOSI SARCOMA	M.9143
LEUKEMIA, ACUTE MYELOGENOUS	M.9865
LEUKEMIA, LYMPHOMA	M.9826
LEUKEMIA	M.9807
LEUKEMIA, CHRONIC LYMPHOMA	M.9827
LEIOMYOSARCOMA	M.8893
LYMPHOMA, LYMPHOCYTIC	M.9633
LYMPHOMA, LYMPHOCYTIC	M.9593
LYMPHOMA, GIANT FOLLICULAR	M.9693
LYMPHOSARCOMA, LYMPHOCYTIC	M.9623
LYMPHOMA, MALIGNANT	M.9593
LYMPHOMA, HISTIOCYSTIC	M.9643
LYMPHEPITHELIOMA	M.8083
LYMPHOMA, T-CELL	M.9703
LYMPHOSARCOMA, LYMPHOCYTIC	M.9613
LIPOSARCOMA	M.8853
LYMPHOMA, STEM CELL	M.9603
MALIGNANT MELANOMA SPINDLE CELL	M.8773
MENINGIOMA	M.9530
METASTATIC CARCINOMA	M.8016
MALIGNANT TUMOR	M.8003
METASTATIC MALIGNANT TUMOR	M.8006
MEDULLOBLASTOMA	M.9473
MALIGNANT MELANOMA	M.8723
MALIGNANT CELLS	M.6972
MYOBLASTOMA	M.9370
MUCOEPIDERMOID CARCINOMA	M.8433
MALIGNANT CARCINOID TUMOR	M.8243
MALIGNANT MESENHYMOMA	M.8993
MESOTHELIOMA	M.9051
MYELOMA	M.9733
METASTATIC MELANOMA	M.8733

FIGURE 14C

MALIGNANT GRANULOSA CELL TUMOR	M.8623
MALIGNANT PHEOCHROMOCYTOMA	M.8703
MALIGNANT MESOTHELIOMA	M.9053
METASTATIC LEIOMYOSARCOMA	M.8893
MESODERMAL TUMOR	M.8953
MIXED TUMOR	M.8940
NEUROBLASTOMA, NEUROEPITHELIOMA	M.9503
NECROTIC TUMOR	M.5443
NEUROBLASTOMA, NEUROEPITHELIOMA	M.9503
OLIGODENDROGLIOMA	M.9453
OAT CELL CARCINOMA	M.8043
OSTEOBLASTOMA	M.9200
OSTEOMA	M.9180
OSTEOSARCOMA	M.9183
OSTEOIDOSTEOMA	M.9190
OSTEOCHONDROMA	M.9210
PAPILLARY CARCINOMA	M.8053
PLASMA CELL MYELOMA	M.9733
PAPILLARY METASTATIC CYATADENOCARCINOMA	M.8463
PAPILLARY TRANSITIONAL CELL CARCINOMA	M.8133
RENAL CELL CARCINOMA	M.2485
RETICULUM CELL SARCOMA	M.9643
RENAL CLEAR CELL CARCINOMA	M.8313
SQUAMOUS CELL CARCINOMA	M.8073
SARCOMA, RETICULAR CELL	M.8316
SQUAMOUS EPITHELIAL TUMOR	M.8070
SQUAMOUS CELL CARCINOMA IN-SITU	M.8072
SARCOMA, UNDIFFERENTIATED GIANT CELL	M.8803
SARCOMA, RETICULAR CELL	M.9643
SPINDLE CELL CARCINOMA	M.8033
SEMINOMA	M.9063
STROMAL SARCOMA	M.8933
TUMOR	M.8001
TUMORLET	M.8043
THYMOMA MALIGNANT	M.8583
TRANSITIONAL CELL CARCINOMA	M.8123
TERATOMA	M.9081
VERRICOUS SQUAMOUS CARCINOMA	M.8053

FIGURE 15

BRAIN INVENTORY CLASSIFICATIONS								
PATHOLOGY	TISSUE	DOB	AGE	SEX	MEDICAL HISTORY	ICD-9-CM DSM-IV-T	MEDICATIONS	METHO
AU-99-47	Brain	04/08/1961	18	M	Multiple traumatic injuries sustained in a motor vehicle accident. Open skull fractures, brain contusions, subarachnoid hemorrhage, pericardial tear, bilateral pneumothoraces, contusions of heart.	291.89 851.80 857.00 860.0	N/A	FFPE
	(organic)				Blood alcohol level 95 mg/dl			
AU-99-61	Brain	04/26/1972	27	F	Pregnancy induced hypertension, Thyroiditis, Asthma, Severe pre-eclampsia, Anoxic encephalopathy, Intracerebral hemorrhage, Hemorrhage of right putamen, Hyperemic cerebral edema, Diffuse anoxic changes	401.9 245.9 433.90 642.0 437.2 431 348.5	Beta-methasone, Magnesium sulfate, Pitocin, Atropine, Mannitol	FFPE
	(organic)							
AU-99-80	Brain	12/27/1947	52	F	Breast cancer, Idiopathic cardiomyopathy, Chronic congestive heart failure, Anaphylactic shock secondary to Taxis administration, Severe hypoxia and brain death	174.9 425.40 420.00 305.90 414.00	N/A	FF
	(organic)							
AU-99-82	Brain	09/05/1957	42	M	Chronic pain, Drug abuse, Severe coronary artery sclerosis, Old myocardial infarction, Cardiomegaly	307.89 305.90 414.00	N/A	FFPE
	(psych)							
AU-99-84	Brain	05/10/1960	39	F	Severe chronic alcoholism, Previous hospital admission for alcohol intoxication and major depression, Severe ascites (4,000 ml), Hepatomegaly (liver 1,690gm)	291.89 305.00 305.90 571.2	N/A	FFPE
	(psych)				Severe cirrhosis			
AU-99-90	Brain	04/19/1962	37	M	Multiple traumatic injuries sustained in a motor vehicle accident. Avulsion of soft tissue, bone and brain, Multiple comminuted open fractures of the skull, Alcohol intoxication, Blood ethanol level 252 gm %			
	(psych)							
AU-99-91	Brain	01/09/2003	71	M	Prostate cancer, Squamous cell cancer lung, Ventricular peritoneal shunt, secondary to progressive hydrocephalus from brain mass, Hypertension, Headaches, Unsteady gait, Mental confusion, Met squamous cell cancer to liver, spleen kidneys, and brain, Emphysema, Atherosclerosis of coronary arteries	165 162.9 331.3 401.9 197.7 198.3 492.5 571.2	N/A	FFPE
	(organic)							
AU-99-92	Brain	05/01/1958	41	M	Morbid obesity, Hypertension, Gout, Chronic pain syndrome, Depression, Acute myocardial infarction, Acute alcohol intoxication, Cardiac hypertrophy, Micronodular cirrhosis	278.00 401.9 274.9 410.90 303.00 291.89 571.2	Acetyl Coenzyme Napro	FFPE
	(psych)							
AU-99-94	Brain	#####	50	F	Ethanol abuse, Hypertension, Elevated liver enzymes, Micronodular cirrhosis, Severe ascites (5L), Splenomegaly, Emphysema	305.00 401.9 571.2 492.5		
	(psych)							